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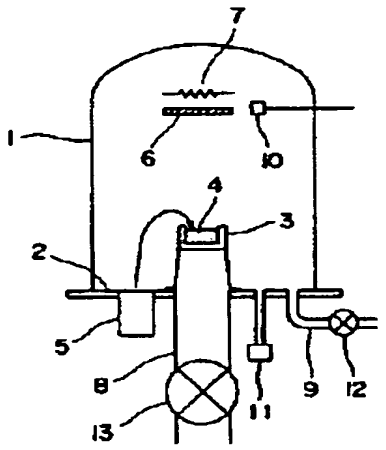
TITLE : MANUFACTURE OF RADIATION IMAGE CONVERSION PANEL



ABSTRACT : PURPOSE: To obtain a radiation image well satisfying the required sharpness as well as radiation sensitivity and image graininess by secularly lowering the temperature of a substrate in forming a phosphor layer of stimurable phosphor via a vapor phase deposition method.

CONSTITUTION: A substrate 6 is first placed in a vacuum bath 1. This bath 1 is, then, exhaust and the substrate 6 is heated by a heater 7 for cleaning the surface thereof. Also, the temperature of the substrate 6 is set at the predetermined level. Thereafter, an electron beam from an electron beam generator 5 irradiates a vaporization source 4 (phosphor layer of stimurable phosphor or the like), thereby vaporizing the source 4. During the aforesaid vaporization process, the temperature of the substrate 6 is secularly lowered. In this case, the temperature of the substrate 6 is adjusted by the heater 7 to satisfy the condition of melting point T_m of source $4 \times 0.35 \leq$ temperature T_2 of substrate 6 upon deposition finish $\leq$ molting point $T_m \times 0.6$ (K).

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